

INDEX TO VOLUME 96

INDEX TO SUBJECTS

	PAGE
Absolute Magnitudes and Space Motions of the Irregular Variable Stars, Mean. <i>Ralph E. Wilson</i>	371
Algol System, A Study of the. <i>Zdeněk Kopal</i>	399
27 Canis Majoris, Radial Velocities of. <i>O. Struve</i>	311
α^2 Canum Venaticorum, Note on the Intensities of Metallic Lines in the Ultraviolet Spectrum of. <i>W. S. Tai</i>	218
YZ (21) Cassiopeiae in Red Light, The Coefficient of Limb Darkening for. <i>Gerald E. Kron</i>	173
CH_2 Molecules in Comets, Laboratory Production of the λ 4050 Group Occurring in Cometary Spectra; Further Evidence for the Presence of. <i>G. Herzberg</i>	314
Cluster Messier 12 and Selected Area 108, Magnitudes and Colors in the Globular. <i>J. J. Nassau and J. A. Hynek</i>	37
Cluster Messier 67, Investigations on Proper Motion. Twenty-third paper: The Proper Motion of the Open. <i>Adriaan van Maanen</i>	382
Comet 1942a (Whipple), The Spectrum of. <i>D. M. Popper and P. Swings</i>	156
Comets, Laboratory Production of the λ 4050 Group Occurring in Cometary Spectra; Further Evidence for the Presence of CH_2 Molecules in. <i>G. Herzberg</i>	314
Corona of September 21, 1941, The Total Light of the Solar. <i>Y. C. Chang and K. T. Li</i>	421
Coronal Lines, The Wave Lengths of the New. <i>William Petrie and Donald H. Menzel</i>	395
Coronaviser, Development of the. <i>H. W. Babcock</i>	242
γ Cygni, Investigations of Typical Stellar Spectra with High Dispersion. II. The Spectrum of. <i>F. E. Roach</i>	272
Eclipsing Systems. II. Theoretical Light-Curves of Close. <i>Zdeněk Kopal</i>	20
Fluid Configuration, The Equilibrium of a Perfect Compressible. <i>Wasley Krogdahl</i>	124
Fluorescence upon the Central Intensities of the Solar D Lines, The Influence of. <i>Richard R. Dempster</i>	295
Gadolinium I, Spectral Structure and Ionization Potential of. <i>Henry Norris Russell</i>	11
Gaseous Nebulae, Continuous Emission in the Spectra of. <i>P. Swings and O. Struve</i>	310
γ Geminorum and Sirius, Curves of Growth for the A Dwarfs. <i>Lawrence H. Aller</i>	321
Hydrogen Ion and Its Absorption Coefficient, The Negative. <i>Ralph E. Williamson</i>	438
Hydrogen, Theoretical Properties of Dense. <i>Charles L. Critchfield</i>	1

	PAGE
Limb Darkening for YZ (21) Cassiopeiae in Red Light, The Coefficient of. <i>Gerald E. Kron</i>	173
Milky Way in Ophiuchus and Northern Sagittarius, Analysis of the. <i>Robert H. Baker and Lois Kiefer</i>	224
Nebula, The Crab. <i>W. Baade</i>	188
Nebula, The Crab. <i>R. Minkowski</i>	199
Night Sky, Spectrophotometric Observations of the Light of the. <i>C. T. Elvey and Alice H. Farnsworth</i>	451
Nova Herculis (1934) and Nova Serpentis (1909) with Identifications of [Fe v] and [Fe III] in Nova Pictoris (1925), Spectrographic Observations of. <i>P. Swings and O. Struve</i>	468
67 Ophiuchi, Note on the Spectrum of. <i>P. Lacroute and W. H. Dirks</i>	481
67 Ophiuchi, The Spectrum of. <i>O. Struve</i>	482
56 Pegasi, Ca II Emission in. <i>P. C. Keenan and J. L. Greenstein</i>	309
Planetary Nebulae, Continuous Emission in the Spectra of. <i>Thornton Page</i>	78
Planets, On the Formation of. <i>R. A. Lyttleton</i>	155
Proper-Motion Data, The Completeness of Surveys Based on. <i>John Titus</i>	292
Proper-Motion Stars, Notes on the. IV. <i>G. P. Kuiper</i>	315
Proper Motion. Twenty-third Paper: The Proper Motion of the Open Cluster Messier 67, Investigations on. <i>Adriaan van Maanen</i>	382
 Reviews:	
Abbott, C. G., L. B. Aldrich, and W. H. Hoover. <i>Annals of the Astrophysical Observatory of the Smithsonian Institution</i> , Vol. VI (T. E. Sterne)	484
Jones, H. Spencer. <i>The Solar Parallax and the Mass of the Moon from Observations of Eros at the Opposition of 1931</i> (G. Van Biesbroeck)	318
Reichenbach, Hans. <i>From Copernicus to Einstein</i> . Translated by Ralph B. Winn (Gunnerar Randers)	318
Smart, W. M. <i>Foundations of Astronomy</i> (O. Struve)	159
Smart, W. M. <i>Sea and Air Navigation</i> (O. Struve)	160
Taylor, Hugh Stott, Ernest O. Lawrence, and Irving A. Langmuir. <i>Molecular Films, the Cyclotron, and the New Biology</i>	486
Wylie, C. C. <i>Astronomy, Maps and Weather</i> (O. Struve)	319
Rowland Intensity Scale in the Near Ultraviolet, The. <i>F. E. Roach and John G. Phillips</i>	71
Selected Area 108, Magnitudes and Colors in the Globular Cluster Messier 12 and. <i>J. J. Nassau and J. A. Hynek</i>	37
Sirius, Curves of Growth for the A Dwarfs γ Geminorum and. <i>Lawrence H. Aller</i>	321
Solar D Lines, The Influence of Fluorescence upon the Central Intensities of the. <i>Richard R. Dempster</i>	295
Solar Disk, A Discussion of the Presence of KH Lines in the Spectrum of the. <i>W. P. Bidelman</i>	157

INDEX TO SUBJECTS

489

PAGE

Solar Lines, $\lambda\lambda$ 3530-3915, Microphotometry of. <i>John G. Phillips</i>	61
Solar Spectrum from 14μ to 24μ , through a New Atmospheric Window in the Infrared, The Extension of the Prismatic. <i>Arthur Adel</i>	239
Solar System, On the Origin of the. <i>W. J. Luyten</i>	482
Spectra of CH Stars, The. <i>Philip C. Keenan</i>	101
Spectra, Curvature of the Lines in Plane-Grating. <i>R. Minkowski</i>	306
Spectra of Gaseous Nebulae, Continuous Emission in the. <i>P. Swings and O. Struve</i>	310
Spectra with High Dispersion. II. The Spectrum of γ Cygni, Investigations of Typical Stellar. <i>F. E. Roach</i>	272
Spectra of Planetary Nebulae, Continuous Emission in the. <i>Thornton Page</i>	78
Spectra and Radial Velocities of the Less Regular M-Type Variable Stars, A Survey of the. <i>Alfred H. Joy</i>	344
Spectrographic Observations of Nova Herculis (1934) and Nova Serpentis (1909) with Identifications of [Fe v] and [Fe III] in Nova Pictoris (1925). <i>P. Swings and O. Struve</i>	468
Spectrographic Observations of Peculiar Stars. IV. <i>P. Swings and O. Struve</i>	254
Spectroscopic Binaries Σ 1669A and Σ 1669B, The. <i>Roscoe F. Sanford and Earl Karr</i>	214
Spectrum of a^2 Canum Venaticorum, Note on the Intensities of Metallic Lines in the Ultraviolet. <i>W. S. Tai</i>	218
Spectrum of Comet 1942a (Whipple), The. <i>D. M. Popper and P. Swings</i>	156
Spectrum of HD 190073, The Interpretation of the. <i>Otto Struve and P. Swings</i>	475
Spectrum of 67 Ophiuchi, Note on the. <i>P. Lacroute and W. H. Dirks</i>	481
Spectrum of 67 Ophiuchi, The. <i>O. Struve</i>	482
Spectrum of the Solar Disk, A Discussion of the Presence of KH Lines in the. <i>W. P. Bidelman</i>	157
Spectrum of ζ Tauri, The Composite. <i>J. A. Hynek and O. Struve</i>	425
Stars of Class Be. Third Paper, Discovery and Observations of. <i>Paul W. Merrill, Cora G. Burwell, and William C. Miller</i>	15
Stars, On the Evolution of the Main-Sequence. <i>M. Schönberg and S. Chandrasekhar</i>	161
Stars of Large Proper Motion, Preliminary Color Indices for. <i>William J. Luyten and Martin Dartayet</i>	55
Stars, Mean Absolute Magnitudes and Space Motions of the Irregular Variable. <i>Ralph E. Wilson</i>	371
Stars, Notes on the Proper-Motion. IV. <i>G. P. Kuiper</i>	315
Stars, Notice concerning Be. <i>Paul W. Merrill and Cora G. Burwell</i>	317

	PAGE
Stars, The Spectra of CH. Philip C. Keenan	101
Stars, Spectrographic Observations of Peculiar. IV. P. Swings and O. Struve	254
Stars, A Survey of the Spectra and Radial Velocities of the Less Regular M-Type Variable. Alfred H. Joy	344
Stellar Configurations, A Note on the Perturbation Theory for Distorted. S. Chandrasekhar and Wasley Krogdahl	151
Stellar Model, Radiation Pressure in the Point-Source. Louis R. Henrich	106
Sun, Abundance of Fe I in the. F. E. Roach and John G. Phillips	75
Sunspot Variations, Probability Laws of. W. Gleissberg	234
Supernovae, On the Frequency of. II. F. Zwicky	28
ζ Tauri, The Composite Spectrum of. J. A. Hynek and O. Struve	425
Venus, On the Chemistry of the Atmosphere of. Rupert Wildt	312

INDEX OF AUTHORS

	<small>PAGE</small>
ADEL, ARTHUR. The Extension of the Prismatic Solar Spectrum from 14μ to 24μ , through a New Atmospheric Window in the Infrared	239
ALLER, LAWRENCE H. Curves of Growth for the A Dwarfs γ Geminorum and Sirius	321
BAADE, W. The Crab Nebula	188
BABCOCK, H. W. Development of the Coronaviser	242
BAKER, ROBERT H., and LOIS KIEFER. Analysis of the Milky Way in Ophiuchus and Northern Sagittarius	224
BIDELMAN, W. P. A Discussion of the Presence of <i>KH</i> Lines in the Spectrum of the Solar Disk	157
BURWELL, CORA G., and PAUL W. MERRILL. Notice concerning Be Stars	317
BURWELL, CORA G., WILLIAM C. MILLER, and PAUL W. MERRILL. Discovery and Observations of Stars of Class Be. Third Paper	15
CHANDRASEKHKAR, S., and WASLEY KROGDAHL. A Note on the Perturbation Theory for Distorted Stellar Configurations	151
CHANDRASEKHKAR, S., and M. SCHÖNBERG. On the Evolution of the Main-Sequence Stars	161
CHANG, Y. C., and K. T. LI. The Total Light of the Solar Corona of September 21, 1941	421
CRITCHFIELD, CHARLES L. Theoretical Properties of Dense Hydrogen	1
DARTAYET, MARTIN, and WILLIAM J. LUYTEN. Preliminary Color Indices for Stars of Large Proper Motion	55
DEMPSTER, RICHARD R. The Influence of Fluorescence upon the Central Intensities of the Solar D Lines	295
DIRKS, W. H., and P. LACROUTE. Note on the Spectrum of 67 Ophiuchi	481
ELVEY, C. T., and ALICE H. FARNSWORTH. Spectrophotometric Observations of the Light of the Night Sky	451
FARNSWORTH, ALICE H., and C. T. ELVEY. Spectrophotometric Observations of the Light of the Night Sky	451
GLEISSBERG, W. Probability Laws of Sunspot Variations	234
GREENSTEIN, J. L., and P. C. KEENAN. <i>Ca II</i> Emission in 56 Pegasi	309
HENRICH, LOUIS R. Radiation Pressure in the Point-Source Stellar Model	106
HERZBERG, G. Laboratory Production of the $\lambda 4050$ Group Occurring in Cometary Spectra; Further Evidence for the Presence of CH_2 Molecules in Comets	314
HYNEK, J. A., and J. J. NASSAU. Magnitudes and Colors in the Globular Cluster Messier 12 and Selected Area 108	37

	PAGE
HYNEK, J. A., and O. STRUVE. The Composite Spectrum of ζ Tauri	425
JOY, ALFRED H. A Survey of the Spectra and Radial Velocities of the Less Regular M-Type Variable Stars	344
KARR, EARL, and ROSCOE F. SANFORD. The Spectroscopic Binaries Σ 1669A and Σ 1669B	214
KEENAN, PHILIP C. The Spectra of CH Stars	101
KEENAN, P. C., and J. L. GREENSTEIN. Ca II Emission in 56 Pegasi	309
KIEFER, LOIS, and ROBERT H. BAKER. Analysis of the Milky Way in Ophiuchus and Northern Sagittarius	224
KOPAL, ZDENĚK. A Study of the Algol System	399
KOPAL, ZDENĚK. Theoretical Light-Curves of Close Eclipsing Systems. II.	20
KROGDAHL, WASLEY. The Equilibrium of a Perfect Compressible Fluid Configuration .	124
KROGDAHL, WASLEY, and S. CHANDRASEKHAR. A Note on the Perturbation Theory for Distorted Stellar Configurations	151
KRON, GERALD E. The Coefficient of Limb Darkening for YZ (21) Cassiopeiae in Red Light	173
KUIPER, G. P. Notes on the Proper-Motion Stars. IV.	315
LACROUTE, P., and W. H. DIRKS. Note on the Spectrum of 67 Ophiuchi	481
LI, K. T., and Y. C. CHANG. The Total Light of the Solar Corona of September 21, 1941	421
LUYTEN, W. J. On the Origin of the Solar System	482
LUYTEN, WILLIAM J., and MARTIN DARTAYET. Preliminary Color Indices for Stars of Large Proper Motion	55
LYTTLETON, R. A. On the Formation of Planets	155
MENZEL, DONALD H., and WILLIAM PETRIE. The Wave Lengths of the New Coronal Lines	395
MERRILL, PAUL W., and CORA G. BURWELL. Notice concerning Be Stars	317
MERRILL, PAUL W., CORA G. BURWELL, and WILLIAM C. MILLER. Discovery and Observations of Stars of Class Be. Third Paper.	15
MILLER, WILLIAM C., PAUL W. MERRILL, and CORA G. BURWELL. Discovery and Observations of Stars of Class Be. Third Paper.	15
MINKOWSKI, R. The Crab Nebula	199
MINKOWSKI, R. Curvature of the Lines in Plane-Grating Spectra	306
NASSAU, J. J., and J. A. HYNEK. Magnitude and Colors in the Globular Cluster Messier 12 and Selected Area 108	37
PAGE, THORNTON. Continuous Emission in the Spectra of Planetary Nebulae	78
PETRIE, WILLIAM, and DONALD H. MENZEL. The Wave Lengths of New Coronal Lines	395

INDEX OF AUTHORS

493

PAGE

PHILLIPS, JOHN G. Microphotometry of Solar Lines, $\lambda\lambda$ 3530-3915	61
PHILLIPS, JOHN G., and F. E. ROACH. Abundance of $Fe\text{ I}$ in the Sun	75
PHILLIPS, JOHN G., and F. E. ROACH. The Rowland Intensity Scale in the Near Ultraviolet	71
POPPER, D. M., and P. SWINGS. The Spectrum of Comet 1942a (Whipple)	156
RANDERS, GUNNAR. Review of: <i>From Copernicus to Einstein</i> , Hans Reichenbach. Translated by Ralph B. Winn	318
ROACH, F. E. Investigations of Typical Stellar Spectra with High Dispersion. II. The Spectrum of γ Cygni	272
ROACH, F. E., and JOHN G. PHILLIPS. Abundance of $Fe\text{ I}$ in the Sun	75
ROACH, F. E., and JOHN G. PHILLIPS. The Rowland Intensity Scale in the Near Ultraviolet	71
RUSSELL, HENRY NORRIS. Spectral Structure and Ionization Potential of Gadolinium I	11
SANFORD, ROSCOE F., and EARL KARR. The Spectroscopic Binaries Σ 1669A and Σ 1669B	214
SCHÖNBERG, M., and S. CHANDRASEKHAR. On the Evolution of the Main-Sequence Stars	161
STERNE, T. E. Review of: <i>Annals of the Astrophysical Observatory of the Smithsonian Institution</i> , Vol. VI, C. G. Abbot, L. B. Aldrich, and W. H. Hoover	484
STRUVE, O. Radial Velocities of 27 Canis Majoris	311
STRUVE, O. Review of: <i>Astronomy, Maps and Weather</i> , C. C. Wylie	319
STRUVE, O. Review of: <i>Foundations of Astronomy</i> , W. M. Smart	159
STRUVE, O. Review of: <i>Sea and Air Navigation</i> , W. M. Smart	160
STRUVE, O. The Spectrum of 67 Ophiuchi	482
STRUVE, O., and J. A. HYNEK. The Composite Spectrum of ζ Tauri	425
STRUVE, O., and P. SWINGS. Continuous Emission in the Spectra of Gaseous Nebulae	310
STRUVE, OTTO, and P. SWINGS. The Interpretation of the Spectrum of HD 190073	475
STRUVE, O., and P. SWINGS. Spectrographic Observations of Nova Herculis (1934) and Nova Serpentis (1909) with Identifications of [Fe v] and [Fe III] in Nova Pictoris (1925)	468
STRUVE, O., and P. SWINGS. Spectrographic Observations of Peculiar Stars. IV.	254
SWINGS, P., and D. M. POPPER. The Spectrum of Comet 1942a (Whipple)	156
SWINGS, P., and O. STRUVE. Continuous Emission in the Spectra of Gaseous Nebulae	310
SWINGS, P., and OTTO STRUVE. The Interpretation of the Spectrum of HD 190073	475
SWINGS, P., and O. STRUVE. Spectrographic Observations of Nova Herculis (1934) and Nova Serpentis (1909) with Identifications of [Fe v] and [Fe III] in Nova Pictoris (1925)	468
SWINGS, P., and O. STRUVE. Spectrographic Observations of Peculiar Stars. IV.	254

	PAGE
TAI, W. S. Note on the Intensities of Metallic Lines in the Ultraviolet Spectrum of α^2 Canum Venaticorum	218
TITUS, JOHN. The Completeness of Surveys Based on Proper-Motion Data	292
VAN BIESBROECK, G. Review of: <i>The Solar Parallax and the Mass of the Moon from Observations of Eros at the Opposition of 1931</i> , H. Spencer Jones	318
VAN MAANEN, ADRIAAN. Investigations on Proper Motion. Twenty-third Paper: The Proper Motion of the Open Cluster Messier 67	382
WILDT, RUPERT. On the Chemistry of the Atmosphere of Venus	312
WILLIAMSON, RALPH E. The Negative Hydrogen Ion and Its Absorption Coefficient	438
WILSON, RALPH E. Mean Absolute Magnitudes and Space Motions of the Irregular Variable Stars	371
ZWICKY, F. On the Frequency of Supernovae. II.	28

